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Switzerland	Psychology └─Psychology (miscellaneous)	Frontiers Media S.A.	157
Universities and research institutions in Switzerland			
Media Ranking in Switzerland			
PUBLICATION TYPE	ISSN	COVERAGE	INFORMATION
Journals	16641078	2010-2022	Homepage
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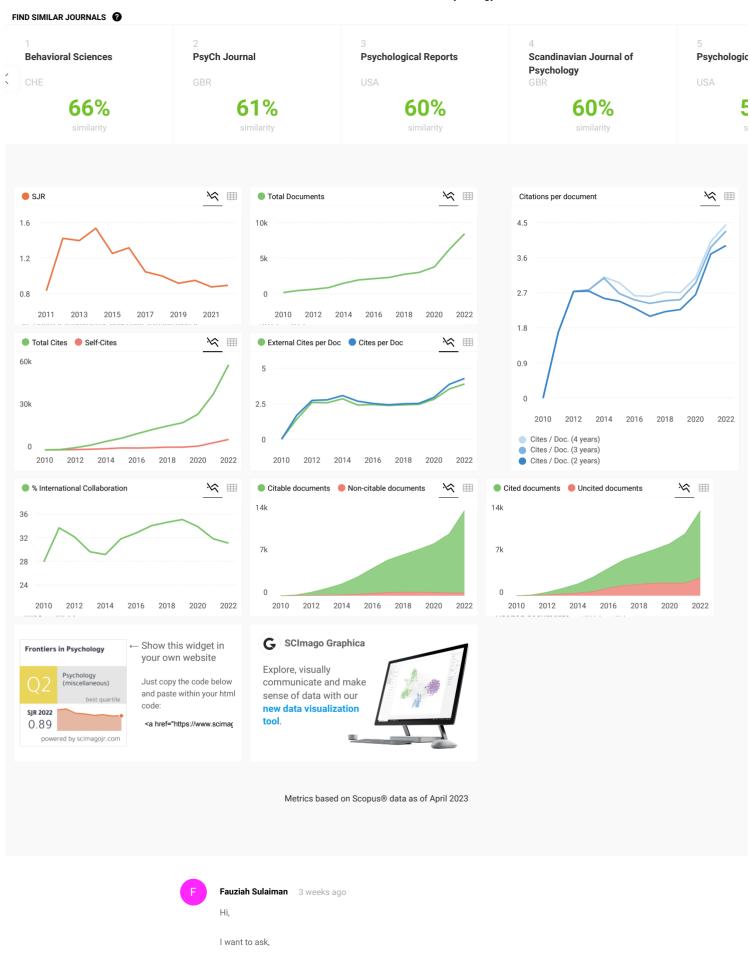
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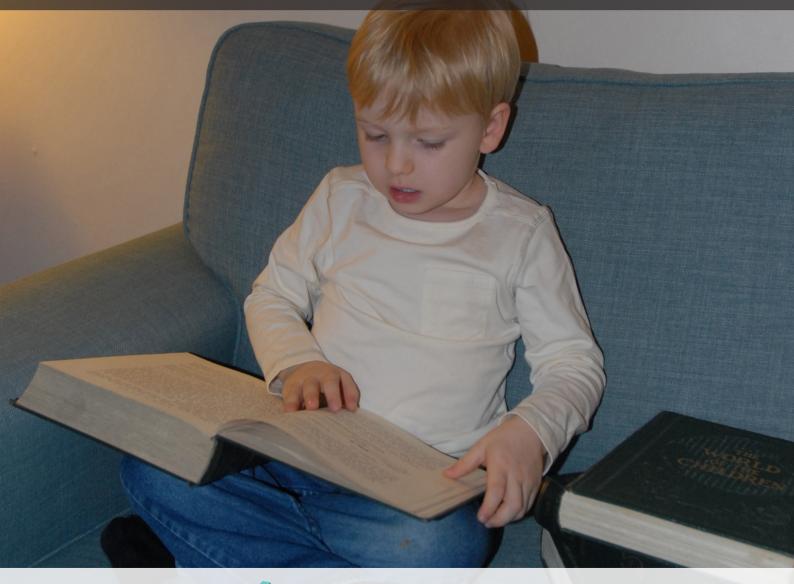
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AN OPEN BOOK: WHAT AND HOW YOUNG CHILDREN LEARN FROM PICTURE AND STORY BOOKS

EDITED BY: Jessica S. Horst and Carmel Houston-Price PUBLISHED IN: Frontiers in Psychology







Editorial: An Open Book: What and How Young Children Learn from Picture and Story Books

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Keywords: storybook attributes, word learning, stereotypes, anthropomorphism, cross-cultural comparisons

Looking at and listening to picture and story books is a ubiquitous activity, frequently enjoyed by many young children and their parents. Well before children can read for themselves they are able to learn from books. Looking at and listening to books increases children's general knowledge, understanding about the world, and promotes language acquisition. This collection of papers demonstrates the breadth of information pre-reading children learn from books and increases our understanding of the social and cognitive mechanisms that support this learning. Our hope is that this Research Topic/eBook will be useful for researchers as well as educational practitioners and parents who are interested in optimizing children's learning.

We conceptually divide this research topic into four broad sections, which focus on the nature and attributes of picture and story books, what children learn from picture and story books, the interactions children experience during shared reading, and potential applications of research into shared reading, respectively.

OPEN ACCESS

Edited and reviewed by: Natasha Kirkham, Cornell University, USA

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Specialty section:

This article was submitted to Developmental Psychology, a section of the journal Frontiers in Psychology

Received: 04 September 2015 Accepted: 26 October 2015 Published: 10 November 2015

Citation:

Horst JS and Houston-Price C (2015) Editorial: An Open Book: What and How Young Children Learn from Picture and Story Books. Front. Psychol. 6:1719. doi: 10.3389/fpsyg.2015.01719

ATTRIBUTES OF PICTURE AND STORY BOOKS

The first section of this research topic focuses on the nature and structural attributes of picture and story books that influence the benefits of shared book reading. Three papers report empirical studies exploring how changes in story book attributes influence adult interaction style and child recall of story content (Greenhoot et al., 2014; Nyhout and O'Neill, 2014; Read, 2014). Greenhoot et al. (2014) examine the effect of storybook illustrations. Specifically, they gave parents either illustrated or non-illustrated stories to read with their 3-4-year-old children. Illustrated stories lead to more verbal and non-verbal exchanges between parents and children during shared reading and better recall of the story events by children. Nyhout and O'Neill (2014) explore the impact of narrative structure on book reading style. Parents read picture books to their 21-month-old children that either included contextual illustrations (narrative) or decontextualized illustrations (non-narrative). Although the two types of books elicited the same number of natural facts about animals overall, mothers reading narrative books provided more story-specific statements about the animals while mothers reading non-narrative books provided more labels and physical descriptions of animals. Finally, Read (2014) examined the effect of rhyme on children's learning of names for novel monsters. Two- to four-year-old children heard stories where either monster names did not rhyme with a descriptive feature, or where the name occurred before the feature (nonpredictive rhyme) or after the feature (predictive rhyme). Children identified significantly more monsters by name if the names followed a predictive rhyme. Together, this sub-collection of papers demonstrates the dramatic influence picture and storybook attributes can have on parent reading behavior and children's learning.

The next two papers present cross-cultural comparisons of the messages conveyed by storybooks (Suprawati et al., 2014; Vander Wege et al., 2014). Suprawati et al. (2014) compared the nature of the challenges faced by protagonists in story books published in Indonesia, Japan and the United States, along with how these challenges were resolved. Japanese stories contained the largest number of challenges, and a greater proportion of challenges that were resolved by the protagonist alone compared to American stories. In a similar vein, Vander Wege et al. (2014) coded the illustrations of books published in Romania, Turkey and the United States for the depiction of emotional expressions. As predicted by cultural norms, American books showed more intense emotional reactions—especially negative expressions. These studies reveal that story books reflect (and may also teach children about) the values of one's cultural group.

The final two papers in this section consider the methods used by researchers to establish which features of story books best support learning. Wagner (2013) provides an opinion piece arguing for the need of a quantitative database of the content of children's books. She explains how such a database could be used to support theoretical claims about the content of picture books and to identify testable hypotheses about the features that help children learn to retell stories. A second methodological paper, by Burris and Brown (2014), reviews the external validity of narrative comprehension assessments, drawing particular attention to research with children from low-SES and minority populations. They argue that researchers should test comprehension using real-time, on-line assessments during the story reading (e.g., think-aloud protocols, probe questions), as well as off-line assessments of children's comprehension (e.g., free recall, cued recall and story retelling).

LEARNING FROM PICTURE AND STORY BOOKS

The next section in the series focuses on what children learn from storybooks. Three papers focus specifically on word learning (Houston-Price et al., 2014; Khu et al., 2014; Williams and Horst, 2014) and a further six focus on how shared book reading supports developments in children's understanding of people (Abad and Pruden, 2013; Golos and Moses, 2013), animals (Ganea et al., 2014; Waxman et al., 2014), food (Heath et al., 2014), and even geometry concepts (Flevares and Schiff, 2014). Khu et al. (2014) demonstrate that teaching 21-month-old toddlers the name of a novel object through a picture book facilitates their ability to learn objects' non-obvious properties (e.g., lighting-up with applied pressure; introduced through a second picture book). Houston-Price et al. (2014) found that both 4- and 6-year-olds were able to provide accurate definitions of new words introduced in stories, but that only the older group formed lexical representations that enabled them to make correct grammaticality judgments about these words. By reading stories immediately before nap time, Williams and Horst (2014) were able to explore the added benefit of sleep on word learning from story books in a preschool sample. Together, these papers add to the literature demonstrating that children acquire new vocabulary knowledge through picture and storybooks (see also Read, 2014) and further elucidate the extent and depth of the knowledge gained.

The next two papers present opinions on how story book characters can help change children's stereotypes. First, Abad and Pruden (2013) synthesize what we know about the influence of story books whose characters engage in atypical gender behavior on children's subsequent play. The authors argue that story books provide a practical (and inexpensive) method for influencing gender stereotypes in a positive way. Golos and Moses (2013) take a similar approach to examining children's perceptions of deaf characters. In addition to reviewing how story books can help present the Deaf community positively, Golos and Moses make recommendations about the quality of the story line required if story books are to captivate and engage children.

The next pair of papers examines the effects of anthropomorphism in story books (Ganea et al., 2014; Waxman et al., 2014). In Ganea et al. (2014), 3–5-year-olds were read books with either anthropomorphic or realistic illustrations and either anthropomorphized or factual language. Both anthropomorphic illustrations and language lead to lower levels of learning, especially for the youngest children. In Waxman et al. (2014), 5-year-old children listened to a book about bears before completing a reasoning task. Children who read a book depicting bears scientifically (e.g., Animal Encyclopedia) generalized properties from one animal to another in the reasoning task (a biological perspective), while those who read a book depicting bears anthropomorphically (e.g., The Berenstain Bears) did not. Note, the stories used by Nyhout and O'Neill (2014) and Greenhoot et al. (2014) also included animals.

The final pair of papers in this section branch out to explore how story books can be used to change children's perceptions of food and mathematics (Heath et al., 2014). Heath et al. (2014) report that looking at picture books about an unfamiliar vegetable with toddlers encourages them to eat the vegetable when it is later offered at a mealtime. The effect was largest for foods that were unfamiliar to children before they saw the books. Heath et al. suggest that picture books might help more broadly to familiarize children with situations that they might otherwise reject. Flevares and Schiff (2014) undertake a chronological review of the evolution of different perspectives on the role of books in supporting school-aged children's learning of mathematical concepts, such as plane geometry. They explore the benefits of using picture-based literature for children's learning of and motivation to engage with mathematics concepts, and for the training of teachers in the delivery of these concepts.

INTERACTIONS BETWEEN READERS AND READING MATERIAL

The third section in the series focuses on how children and parents interact with the story and each other during shared reading situations. Two papers in this section focus on the reading behaviors of middle-class African American (Harris and Rothlein, 2014) and Japanese (Murase, 2014) mothers. Harris and Rothlein (2014) found large individual differences in mothers' reading styles. However, the most common narrativeeliciting strategies included questions about the characters and refocusing statements (e.g., directing the child to look back at the illustration). Murase's (2014) 7-month longitudinal study of maternal reading behavior found that mothers initially focus on providing information to children and that they display more requests for information over time. The number of informationseeking requests by mothers was positively correlated with children's productive vocabularies. In the next paper, Kucirkova (2013) reviews how children interact with iPad books, which she suggests offer a useful tool for examining how children engage with stories. Kucirkova also highlights the need for researchers to acknowledge the learning opportunities provided by children's increasing experiences with digital media.

INTERVENTIONS USING STORY BOOKS

The final section of the series takes a more applied angle. Two papers (Adlof et al., 2014; Tsunemi et al., 2014) present preliminary data from interventions using story books that show promise in helping children improve key skills. Adlof et al. (2014) confirmed the feasibility of a new intervention for low-SES children: structured narrative retell instruction (SNRI). In a group intervention, clinicians asked children questions about each component of the narrative (e.g., the characters) after each reading. Children who completed the intervention showed improvements in narrative macrostructure (including the total number and diversity of the words they used and their mean length of utterance) and overall vocabulary scores. Tsunemi et al.'s (2014) intervention aimed to help school-aged children

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with autism improve their social perspective-taking skills. Parents read narrative books to their children for almost a week and asked questions about the mental states of the characters after each reading. Children in the intervention group improved in their ability to take second- and third-person perspectives in a social perspective-taking task. Together, this pair of feasibility studies suggests that narrative storybooks provide a suitable medium for a range of interventions to support children's development.

CONCLUSIONS

The goal of this Research Topic was to foster an interdisciplinary exchange of the methods that have been used to uncover how and what young children learn from books and the knowledge that this work has revealed. The final collection of articles has exceeded our expectations in regard to its breadth of offering, including work by researchers from fields comprising communication science, education, linguistics, psychology and speech and language disorders. The volume provides an eclectic but complementary overview of the current state of research on the status of picture and story books in young children's development. Our reading of this literature is that books are a powerful and somewhat unharnessed resource that could be employed to a much greater extent to help children to engage with and make sense of the world around them.

AUTHOR CONTRIBUTION

Both JH and CH wrote the editorial and determined the groups of articles into the four categories presented in the editorial.

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Conflict of Interest Statement: The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

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"I think I can": achievement-oriented themes in storybooks from Indonesia, Japan, and the United States

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Danuta Bukatko, Department of Psychology, College of the Holy Cross, 1 College Street, Worcester, MA 01610, USA e-mail: dbukatko@holycross.edu The focus of the present study is on the ways in which storybooks communicate cultural ideals about achievement orientation, and in particular, the role of effort, perseverance, and hard work in fostering successful outcomes. Sixty preschool children's books from Indonesia, Japan, and the United States (20 from each country) were examined for the presence of achievement-oriented themes. These countries were chosen due to previously documented cultural differences in models of learning and individualist/collectivist tendencies that could have some bearing on achievement outcomes. Texts were assessed for (1) the frequency with which "challenge events" appeared in the narratives, (2) whether these events derived from sources internal or external to the main character, and (3) whether solutions relied on the main character individually or included the assistance of others. Results show that Japanese storybooks contained significantly more challenge events than Indonesian storybooks. Compared with Japanese storybooks, American storybooks tended to include a greater proportion of challenges derived from internal qualities of the main character as opposed to external factors. Compared with American storybooks, Japanese storybooks contained a significantly greater proportion of challenges that were solved with individual efforts as opposed to efforts involving the assistance of others. Findings from this study contribute to our understanding of how storybook contexts can provide a rich source of information for young children learning about culturally valued gualities and behaviors related to achievement.

Keywords: achievement, storybooks, preschoolers, culture, socialization, Japan, Indonesia

INTRODUCTION

The values and beliefs children bring to the school experience have important consequences for their success. For example, students who have *perceived control*—that is, they believe that they can influence success or failure in school, tend to achieve higher grades, primarily through their greater engagement with classroom activities (Skinner et al., 1990). Similarly, research shows that self-efficacy, the individual's belief in her or his capabilities to attain specific goals, plays a role in academic achievement (Bandura, 1997; Zimmerman, 2000). Still another line of research shows that students who hold incremental (or malleable) theories of their intelligence choose more effort-based strategies in response to classroom failures and obtain higher grades than students who believe intelligence is fixed (Elliot et al., 1999; Blackwell et al., 2007). Children show different profiles in their approach to challenging tasks as early as kindergarten, with some displaying the belief that success comes from trying hard, while others exhibit feelings of lack of control (Ziegert et al., 2001). Thus, in examining the factors that are related to high vs. low achievement in school, it is important to consider how children form beliefs about themselves as learners and to identify the ways in which children's experiences convey information about what it takes to be successful even before they enter the formal educational system.

The focus of the present study is on the ways in which storybooks communicate cultural ideals about achievement orientation, and in particular, the role of effort, perseverance, and hard work in fostering successful outcomes. These ideals take on special significance in light of accumulating evidence that self-regulation, delay of gratification, and persistence are among the strongest predictors of academic success as children progress through the educational system (Duckworth and Seligman, 2005; Duckworth et al., 2007).

Storybooks targeted for preschoolers can be viewed as cultural tools that contain a wealth of information about social norms, values, and personal traits that are desirable within societal groups. As Lamoreaux and Morling (2012) maintain, there is value in examining cultural products since they likely reflect the "psychologies of members of a cultural group." For example, storybooks for preschoolers have been identified as sources of information for children about the specific emotions that are valued in different cultures (Tsai et al., 2007), as well as the mental states that guide how children understand themselves and others (Dyer et al., 2000; Dyer-Seymour et al., 2004). In the case of understanding the development of achievement motivation and beliefs, it may be that the narratives children encounter in storybooks offer information about the ingredients for successful problem resolution, and especially the personal qualities and behaviors that are linked to achieving some goal or objective successfully. That is, storybooks may be important complements to the messages children receive from caregivers and other sources about behaviors and beliefs necessary for success.

In the present study, 60 preschool children's books from Indonesia, Japan, and the United States (20 from each country) were examined for the presence of achievement-oriented themes. These countries were chosen due to observed cultural differences in models of learning and individualist/collectivist tendencies that could have some bearing on achievement outcomes. Previous research has pointed to the tendency for Japanese students to attribute success to hard work and failure to lack of effort, in contrast to Anglo American children, who attribute success to a range of factors including luck and ability along with effort (Holloway, 1988). Furthermore, such cross-cultural differences in beliefs about effort are enacted in divergent patterns of responses to failure. Heine et al. (2001) reported that Japanese students who failed a problem-solving task responded by persisting even more, in contrast to North American students, who were less likely to persevere. It is possible that parental values and parenting practices have an influence on these patterns in children's achievement beliefs. As Holloway et al. (1986) have reported, Japanese mothers see failures in children's performance as primarily due to lack of effort, whereas American mothers view children's failures as due to a mix of low effort and low ability. However, as important as they are, parental "inputs" about qualities related to achievement are likely to be only one force shaping children's notions about culturally-valued qualities of the self. Our intent was to examine how variations in cultural products such as storybooks may also play a part in this process.

There is little research on achievement beliefs among students in Indonesia. Liem and Nie (2008) found that secondary students in Indonesia tended to hold more performance-oriented than mastery-oriented goals, being more attuned to achieving externally determined goals in a way that is socially approved than to intrinsic motivations to learn when compared to Chinese students. When we consider Dweck's (1999) research on achievement motivation, the implication is that for these students, there might be less value placed on the role of effort. The inclusion of storybooks from Indonesia offers an opportunity to see how a community that shares an orientation to collectivism with Japan, but which may differ in other aspects concerning notions of the self that may be shared with the United States, portrays messages about achievement to young children. Heine (2001) suggests that many aspects of the East Asian self (Japan), characterized by collectivism, interdependence, and a focus in interpersonal harmony, can be understood as arising from principles of Confucianism. Since this tradition emphasizes the importance of changing the self in order to accommodate to the demands of the social world, the prominence of effort beliefs in Japan seems like a natural consequence. Indonesia is typically considered a collectivist society (Hofstede, 1991). However, its religious tradition is considerably different from other East Asian countries. While Confucianism is recognized as one of Indonesia's six official religions, less than 0.2% of the population now selfreports as belonging to this group (Sensus Penduduk, 2010).

The implication is that perhaps beliefs about effort might take a different form in this country.

The storybooks we selected were intended to represent widely read classic and contemporary works targeted for preschool children ages 3-4 in Indonesia, Japan, and the United States. In analyzing the content of these storybooks, we conceptualized achievement themes as being manifest by narratives in which the principal character encountered challenges or obstacles that had to be overcome. Texts were assessed for the frequency with which "challenge events" appeared in the narratives, the idea being that repeated attempts to solve a given problem or successive problems provided a message about the importance of effort, perseverance, and trying again without giving up. In an attempt to capture cultural variations concerning individual vs. collectivist themes, we also assessed whether these challenge events derived from sources internal or external to the main character, and whether solutions to challenge events relied on the individual actions or resources of the main character or whether the main character benefited from the assistance of others.

MATERIALS AND METHODS

A sample of 60 narrative storybooks from the United States, Japan, and Indonesia (20 per country) targeted for 3- to 4year-olds was included in the study (see Supplemental Material for a complete list). Books from the United States and Japan were chosen using guidelines from previous research by Dyer et al. (2000); Dyer-Seymour et al. (2004). These books were selected from a larger database of approximately 190 children's storybooks compiled by Japanese experts and over 350 books compiled by American experts. These books were frequently read to young children and deemed appropriate for 3- to 4-year-olds based on the researchers' consultations of guidebooks for Japanese and American parents (Dyer-Seymour et al., 2004). Given a lack of comparable guidelines in Indonesia, the Indonesian storybooks were selected through teacher recommendations from 7 preschools and kindergartens in three cities in Central Java: Yogyakarta, Muntilan, and Semarang. We then equated the reading level of these books by computing the word density (number of words per page) of each American book and choosing 20 Indonesian books with comparable density.

CODING

All of the storybooks in the study sample were written in the original languages (English for books from the United States, Japanese for books from Japan, and Indonesian for books from Indonesia). In order to avoid confounds involving the coders' native language, their countries of origin, and personal values regarding effort and achievement, we decided to have the books from Japan and Indonesia translated into English and have a single, native English-speaking coder (who was blind to our hypotheses) complete the coding of all books. The translators were Japanese-English and Indonesian-English bilingual speakers who were also blind to the study hypotheses.

In each storybook, our analysis focused on the main character, which was determined by several criteria. First, the main character is usually stated in the title (e.g., "the Runaway Bunny"). Second, the main character is mentioned or described more than other characters in the book. Third, the main "character" could be considered to be more than one individual (e.g., a team or pair of individuals), but only when there is no more detailed description of one character over another, or no one individual is mentioned more than another. Finally, the main character could be an entire group of individuals, as long as these individuals are mentioned as a unit.

Once the main character was established, we identified challenge episodes. A challenge episode is where the main character encounters an obstacle or difficulty that could prevent him/her from achieving a goal. We then coded each challenge episode along several dimensions. First, we determined the source of the challenge: Internal or External. An Internal source is where the challenge comes from some quality or behavior of the main character him/herself. For example, Betsy stopped singing because she got sick; Michael decided not to join his friends on the basketball court because he believes he is too small. An External source is when the challenge comes from the environment, a situation, or other characters outside of the main character. For example, Betsy stopped singing because her parents didn't allow her to sing anymore; Michael didn't play basketball because someone took his ball. Second, we identified the solution for the challenge: Individual or Social. An Individual solution is when the main character overcomes the challenge by her/himself. A Social solution is when the main character receives help from another character to overcome the challenge. Finally, at the end of each book, we determined whether the main character achieves his/her goal (Success or Failure). If the main character is successful, we also identified who gets the benefit of the solution in the end: only the main character (Individual benefit), an(other) character(s) (Other benefit), or both (Shared benefit). To assess the reliability of this coding, another native English-speaking coder (also blind to our hypotheses) scored a randomly selected set of 10 American storybooks in the sample. The inter-rater reliability between these coders was 0.78.

RESULTS

Based on the coding scheme described above, we analyzed the data by comparing the three countries in terms of the number of challenge events, the sources/types of challenges and their solutions, and the nature of the overall outcome.

BOOK LENGTHS

To examine whether the lengths of the books were equivalent for the three countries in the sample, we counted the total number of sentences for each book from Indonesia, Japan, and the United States. A One-Way ANOVA on this measure showed a significant effect of country, $F_{(2, 59)} = 7.324$, p = 0.001. *Post-hoc* analyses indicated that Japanese and American storybooks did not differ significantly from each other in length ($M_{Japanese} = 52.55$, SD = 18.71; $M_{American} = 56.2$, SD = 28.65). However, Indonesian storybooks were significantly lower in length compared to storybooks from Japan and the United States ($M_{Indonesian} = 31.05$, SD = 18.53, p = 0.010, and p = 0.002, respectively).

NUMBER OF CHALLENGE EVENTS

For each book, we tallied the number of challenge events present in the textual information in the narratives. Most of the books in our sample included at least one challenge event (85% of the Indonesian books, 90% of the Japanese books, and 80% of the American books). A One-Way ANOVA conducted on the total number of challenge events as a function of country yielded a significant effect of country, $F_{(2, 59)} = 3.91$, p = 0.026. *Post-hoc* analyses showed that Japanese books had significantly more challenge events than Indonesian books ($M_{\text{Japanese}} = 4.75$, SD = 2.49; $M_{\text{Indonesian}} = 2.6$, SD = 1.76, p = 0.035) and that American books had a greater number of challenge events than Indonesian books, although the difference was only marginally significant ($M_{\text{American}} = 4.5$, SD = 3.46, p = 0.07). There was no significant difference in the mean number of challenge events for Japanese and American books.

These findings, of course, need to be tempered by the fact that book lengths for the Indonesian sample were shorter compared to Japan and the United States. There is less opportunity for challenge events to appear if books have less content. However, if the Indonesian books can be considered to represent the typical storybook experience for preschool children in that country, these data suggest that Indonesian children receive less exposure to characters that repeatedly attempt to overcome obstacles than children in Japan and the United States.

TYPES OF CHALLENGES AND SOLUTIONS

In order to obtain a better understanding of the types of challenges encountered by characters in the storybooks, we tallied the proportion of challenge events that were coded as Internal to the main character in their origin for each book. A One-Way ANOVA on this measure indicated a marginally significant effect of country, $F_{(2, 59)} = 2.52$, p = 0.089. American books depicted more Internal challenge events (M = 0.45, SD = 0.42) than Indonesian books (M = 0.36, SD = 0.43), which in turn depicted more Internal challenge events than Japanese books (M = 0.18, SD = 0.27). Further analysis showed that the contrast between means for American vs. Japanese books approached significance (p = 0.079).

In addition, the proportion of solutions to challenge events that were coded as Individual in nature was obtained for each book. A One-Way ANOVA on this measure showed a significant effect of country, $F_{(2, 59)} = 3.62$, p = 0.033. Posthoc analyses showed that Japanese storybooks had a greater proportion of Individual solutions to problems compared to American books ($M_{Japanese} = 0.77$, SD = 0.36; $M_{American} = 0.44$, SD = 0.43, p = 0.025). The mean proportion of Individual solutions for Indonesian books (M = 0.61, SD = 0.37) was not significantly different from the two other groups.

OUTCOMES OF CHALLENGES

We hypothesized that collectivist vs. individualist themes might be revealed by the types of outcomes evidenced in the resolution of the overall dilemma or challenge presented in the narratives being examined. First, the overwhelming majority of books depicted successful resolution of the overall challenge depicted in the book. Only 2 or fewer out of the 20 books in each country presented a failure to achieve success. For the successes, outcomes coded as having an Individual, Other-oriented, or Shared (between self and other) benefit were analyzed to see if patterns varied by country. A chi-square test showed no significant differences in how these outcome scores were distributed across the three countries, $\chi^2_{(4)} = 6.00$, p = 0.199. Most outcomes were directed toward the main characters themselves or shared between main characters and others. In no instance were others the sole beneficiaries of the problem resolution.

DISCUSSION

The current study examined storybooks targeted for preschoolers from Indonesia, Japan, and the United States for the presence of achievement-oriented themes. The books were analyzed in terms of the number of challenge events, the source of each challenge, and the type of solution for the challenge. The results revealed several interesting findings, as discussed below.

First, while Japanese storybooks were similar to American storybooks in the number of challenge events, these groups differed in terms of the source of the challenge and the solution for the challenge. The challenges depicted in American storybooks tended to be due to internal qualities of the main character, but the solutions for the challenge were mostly external in nature (i.e., the main character typically received help from others to overcome the challenge). The somewhat greater emphasis on internal sources of challenge in American storybooks is consistent with previous observations that American children tend to exhibit ability beliefs (vs. effort beliefs) (Holloway, 1988; Stevenson and Stigler, 1992). In contrast, challenge events in Japanese storybooks were mostly caused by external factors, but the solutions were mostly individual in nature. This emphasis on individual effort complements Heine et al.'s (2001) observations that Japanese students were more likely to persevere during challenging tasks compared to American students. Moreover, the Japanese storybooks' emphasis on individual solutions is particularly interesting when we consider the higher tendency for the challenge to be externally caused. It seems that in addition to effort and perseverance-values that have been observed in Japanese parenting (Holloway et al., 1986)—Japanese storybooks also convey a message of personal responsibility. That is, regardless of the source of the challenge, Japanese children are receiving the message to take "ownership" of the problem by exerting individual effort to find a solution. This pattern of findings is consistent with the idea that in Japanese society, notions of self are malleable and individuals are expected to focus on self-improvement (Heine et al., 2001).

Second, compared to the American and Japanese books, the Indonesian storybooks depicted the fewest number of challenge events. This pattern may indicate a smaller cultural emphasis on meeting and overcoming challenges. It also seems to complement previous observations that Indonesian students focus on externally defined performance goals instead of mastery goals (Liem and Nie, 2008), since mastery goals often require individual effort and perseverance. Of the challenge events analyzed, Indonesian storybooks fell in the middle between American and Japanese storybooks in terms of the source of the challenge (Internal vs. External) and the solution for the challenge (Individual vs. Social). This pattern of findings suggests that it might be premature or even inappropriate to make broad, sweeping assumptions about how achievement values align with collectivist vs. individualist tendencies. There may be more nuanced ways in which beliefs about effort interface with cultural values, whether collectivist or individualist, perhaps depending on other social forces such as religion, political history, or economic circumstances. Indeed, cultural orientation and achievement beliefs may even be orthogonal constructs. Certainly, these are rich areas for future research.

In conclusion, the present findings suggest that as cultural products, storybooks do seem to convey to young children some important, culturally valued messages about effort and achievement. Future work should examine whether and how values of effort and perseverance are conveyed in storybooks targeted for older age groups. As children get closer to formal schooling, do storybooks help prepare them by making these values more explicit compared to books for younger ages? It would be important to look for messages about schooling and in particular, whether schooling and its associated activities are described in terms of obligations ("work") or more enjoyable "opportunities to learn." More detailed analyses on the language by which these messages are framed could be informative.

ACKNOWLEDGMENTS

We are grateful for the contributions made to this project by our translators, Felicia Anggoro and Natsuko Kuwahara, and by our coders, Chelsea L'Ecuyer and Nicole Clifford. Thanks also to Lawu Arie Awanto for assistance in locating the Indonesian storybooks, Mark Hallahan for discussions about the project, and Jennifer Dyer-Seymour for sharing lists of Japanese and American storybooks. In addition, we appreciate the generous support of a Research and Publication Grant from the College of the Holy Cross for the work reported here.

SUPPLEMENTARY MATERIAL

The Supplementary Material for this article can be found online at: http://www.frontiersin.org/journal/10.3389/fpsyg. 2014.00167/abstract

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Conflict of Interest Statement: The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

Received: 25 November 2013; paper pending published: 17 December 2013; accepted: 11 February 2014; published online: 04 March 2014.

Citation: Suprawati M, Anggoro FK and Bukatko D (2014) "I think I can": achievement-oriented themes in storybooks from Indonesia, Japan, and the United States. Front. Psychol. 5:167. doi: 10.3389/fpsyg.2014.00167

This article was submitted to Developmental Psychology, a section of the journal Frontiers in Psychology.

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